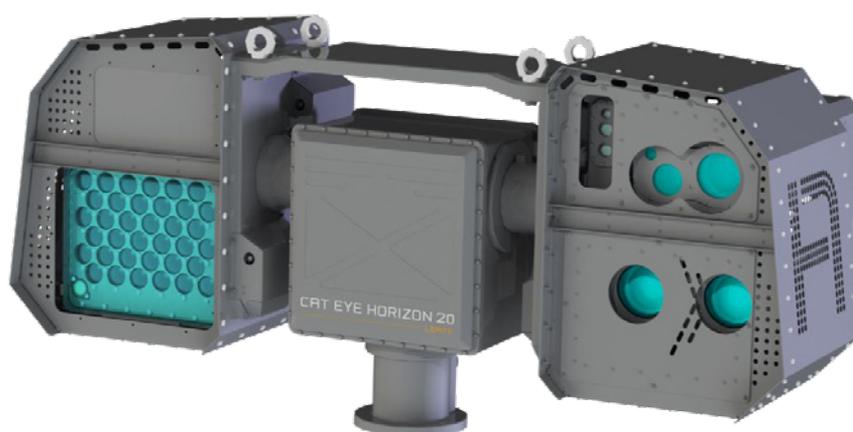

LERITY

ALCEN

CAT EYE HORIZON 20

Panoramic Extra-Long-Range Day/Night
Autonomous Surveillance System



APPLICATIONS

Observation

- 24/7 surveillance
- 40Km By Day / 20 Km By Night
- Adjustable surveillance area
- Panoramic surveillance
- Horizon scanning

Security

- Target acquisition and tracking
- Automatic event detection
- Multi-threat detection

MISSIONS

- Coastal Surveillance
- Border Surveillance
- Sensitive Site Protection
- Aboard merchant and navy ships: situational awareness and close protection

FEATURES

- Range-gated Active Imaging (pulsed illumination of target)
- Visible & Infrared Cameras
- Eye-safe Laser Range Finder (class 1)
- Gyrostabilized turret
- Conformity to MIL-STD
- Compatibility with different sensors (radar, AIS...) (optional)
- Possibility of integration to different C2 systems / VMS Standard Protocols PELCO & ONVIF
- ITAR free
- Dimensions: 1,495 × 694 × 562 mm³
- Weight: < 150 kg

Ultra-High Performance for
Critical Missions in any Condition

cameras & vision systems

VISIBLE / NEAR IR NARROW FIELD OF VIEW CHANNEL

	Field of View	Sensitivity	Input Light Range	Resolution
NFOV SENSITIVITY RESOLUTION	3.26°(H) × 1.84°(V)	Up to night level 3 in passive mode	0.01 to 100,000 Lux	8.3 MP 4K
	IFOV	VIS/NIR/BP	Focus	Sensor
	15 µrad	3-band selection	Manual/Automatic	sCMOS BSI Monochrome

VISIBLE COLOR WIDE FIELD OF VIEW COLOR CHANNEL

	Field of View	Sensitivity	Input Light Range	Resolution
WFOV SENSITIVITY RESOLUTION	11.9°(H) × 6.7°(V)	Up to night level 3 in passive mode	0.1 to 100,000 Lux	8.3 MP 4K
	IFOV	Bayer	Focus	Sensor
	54 µrad	LDI & Bilinear	Manual/Automatic	sCMOS BSI Color

PROXIMITY SURVEILLANCE VISIBLE CHANNEL 4K COLOR CAMERA

	Native Resolution	Field of View (FOV)	Focus	Image Processing
4K COLOR CHANNEL	3840 × 2160 pixels	45°	Manuel / Automatic	LDI and bilinear algorithms for image processing

ILLUMINATOR**

	Wave Length	Illuminated field	Max Optical Power	NOHD
SOURCES EYE SAFETY MODE	808 nm	1.1°(H) × 1.1°(V)	200 W	120 m
	Mode 1	Mode 2	Mode 3	Eye Safety
	Automatic power control	Power guided by line of sight	Pulsed for range gating	Automatic shutdown

LRF

	Wave Length	Detection Range	Safety	Divergence
DISTANCE MEASURE	1.54 nm	14.5 km (2.3 m × 2.3 m)	Class 1	0.35 mrad

PAN & TILT UNIT

	Pan Range & Speed	Tilt Range & Speed	Accuracy	Stabilization
RANGE – SPEED ACCURACY	N × 360° 0.001°/s to 100°/s	± 90° 0.001°/s to 80°/s	0.02°	± 300 µrad

COMMAND & CONTROL

	Real-time Observation – Full HD Restitution Format	Digital Map
MAIN FEATURES	PTZ/Focus, single picture, picture in picture, panoramic picture, sector scanning with presets	Multilayer support: map, drawing and measurement tools Multi sensor support: radar, AIS, GPS
	Video Analysis and Recording	Video Surveillance Integration
	Automatic detection & video tracking, Video and snapshot recording: H264/MPEG/JPEG	Slew-to-cue mode

INTERFACE / POWER / COMMUNICATION / MAINTENANCE

	Weight	Dimensions	Voltage	Power
WEIGHT DIMENSION INTERFACE COMMUNICATION	< 150 kg	1,495 × 694 × 562 mm ³	24 to 48 VDC	2,000 W
	Communication	Protocol	Workstation	Maintenance
	SMPTE ST 2081 6G SDI RS-232, RS-485/422	DCP-PT Protocol	Desktop PC 21" display	Comprehensive Built-in Test

ENVIRONMENTAL

	Temperature	IP	Shocks & Vibration	EMI/EMC
TEMPERATURE SHOCKS VIBRATION	[-30°C – +55°C] functional 1,100 W/m ² Solar Radiation	IP66	MIL-STD 810 F	CE Marquing

IR CHANNEL

	Spectral Bande	Resolution	Technoly	Champ
Infrared				
Serial	MWIR	640 × 512	Cooling	Under NDA
Optional	SWIR	1280 × 1084	Non-cooling	Under NDA

** Information on effective ranges for day/night available under NDA. Please contact us.

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